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MERRILL, BARBARA MCEOWEN
SCHATZ, PETER JOSEPH

<120> COMPOUNDS HAVING AFFINITY FOR THE GRANULOCYTE-COLONY STIMULATING FACTOR RECEPTOR (G-CSFR) AND ASSOCIATED USES

<130> 0300-0014

<140> 09/620,091
<141> 2000-07-20

<160> 491

<170> PatentIn Ver. 2.1

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<400> 83

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1 5 10 15

<210> 84

<211> 16

<212> PRT

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Gly Gly Gly Cys Asp Pro Trp Val Trp Tyr Asp Leu Cys Trp Cys Asp
1 5 10 15

<210> 85

<211> 16

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 85

Tyr Thr Ser Cys Asp Pro Trp Ile Phe Phe Asp Arg Cys Met Ser Val
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<210> 86

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 86

Asp Pro Tyr Cys Asp Pro Trp Met Phe Phe Asp Gln Cys Ala Tyr Leu
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<210> 87

<211> 14

<212> PRT

<213> Artificial Sequence

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<210> 88
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1 5 10 15

<210> 89
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Leu Val Phe Cys Asp Pro Trp Ile Tyr Tyr Asp Leu Cys Met Asp Thr
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<210> 90
<211> 12
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Gly Cys Ser Phe Val Gln Leu Asn Ser Ile Cys Gly
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<210> 91
<211> 12
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Gly Cys Pro Ala Trp Tyr Leu Glu Tyr Met Cys Gly
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<210> 92

<211> 12

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

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Gly Cys Pro Asp Trp Tyr Leu Glu Tyr Met Cys Gly
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<210> 93

<211> 12

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

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Gly Cys Lys Tyr Trp Gln Trp Phe Asp Lys Cys Gly
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<210> 94

<211> 12

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

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Gly Cys Asp His Trp Met Trp Tyr Asp Lys Cys Gly
1 5 10

<210> 95

<211> 9

<212> PRT

<213> Artificial Sequence

<220>
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Ser Asn Glu Ser Gly Trp Val Trp Leu
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<210> 96
<211> 9
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<210> 97
<211> 9
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Arg Thr Glu Ser Gly Trp Val Trp Thr
1 5

<210> 98
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Arg Ala Asn Ser Gly Trp Val Trp Val
1 5

<210> 99
<211> 9
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<400> 99

Tyr Asp Asn Ser Gly Trp Val Trp His
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<210> 100

<211> 10

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Leu Ser Asp Ser Gly Trp Val Trp Val Pro
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<211> 15

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Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Cys
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<210> 102

<211> 11

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

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Cys Glu Gln Ser Asn Ser Gly Trp Val Trp Val
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<210> 103

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

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Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Cys Lys
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Lys Lys

<210> 104

<211> 15

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<213> Artificial Sequence

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<400> 104

Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Lys Lys Lys Cys
1 5 10 15

<210> 105

<211> 14

<212> PRT

<213> Artificial Sequence

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<400> 105

Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Lys Lys Lys
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<210> 106

<211> 13

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Lys Lys Lys Glu Gln Ser Asn Ser Gly Trp Val Trp Val
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<210> 107

<211> 18

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<400> 107
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Lys Lys

<210> 108
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<400> 108
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Cys Lys Lys Lys
1 5 10 15

<210> 109
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Cys Lys Lys Lys
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<210> 110
<211> 10
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<210> 111

<211> 10

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Glu Gln Ser Asn Ser Gly Trp Val Trp Val
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<211> 10

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<400> 112

Ser Arg Thr Glu Ser Gly Trp Val Trp Thr
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<210> 113

<211> 10

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<400> 113

Gln Arg Ala Asn Ser Gly Trp Val Trp Val
1 5 10

<210> 114

<211> 10

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 114

Asp Tyr Asp Asn Ser Gly Trp Val Trp His
1 5 10

<210> 115

<211> 15

<212> PRT
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<220>
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<400> 115
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Lys Lys Lys Lys
1 5 10 15

<210> 116
<211> 18
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<220>
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<400> 116
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Ser Lys
1 5 10 15
Lys Lys

<210> 117
<211> 15
<212> PRT
<213> Artificial Sequence

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<400> 117
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Ser
1 5 10 15

<210> 118
<211> 30
<212> PRT
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<220>
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<400> 118
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Ser Glu
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Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Ser
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<210> 119

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 119

Arg Tyr Gln Ser Phe Glu Leu Ser Asp Ser Gly Trp Val Trp Val Pro
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Val Ala Arg His

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<210> 120

<211> 6

<212> PRT

<213> Artificial Sequence

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Glu Arg Asp Trp Phe Cys
1 5

<210> 121

<211> 6

<212> PRT

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Glu Arg Asp Trp Gly Cys
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<210> 122

<211> 6

<212> PRT

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<220>

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<400> 122
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<210> 123
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Glu Arg Ser Tyr Phe Cys
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<210> 124
<211> 6
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Glu Arg Gly Trp Phe Cys
1 5

<210> 125
<211> 6
<212> PRT
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1 5

<210> 126
<211> 6
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Glu Arg Ala Trp Phe Cys
1 5

<210> 127
<211> 6
<212> PRT
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Glu Arg Leu Tyr Phe Cys
1 5

<210> 128
<211> 6
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<400> 128
Glu Arg Tyr Phe Met Cys
1 5

<210> 129
<211> 6
<212> PRT
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<220>
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Glu Arg Leu Phe Leu Cys
1 5

<210> 130
<211> 6
<212> PRT
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<400> 130
Glu Arg Ala Leu Met Cys
1 5

<210> 131
<211> 6
<212> PRT
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<220>
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<400> 131
Glu Arg Asp Val Met Cys
1 5

<210> 132
<211> 6
<212> PRT
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<220>
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<400> 132
Glu Arg Lys Trp Phe Cys
1 5

<210> 133
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<220>
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<400> 133
Glu Thr Trp Gly Glu Arg Asp Trp Phe Cys
1 5 10

<210> 134
<211> 10
<212> PRT
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<400> 134
Glu Thr Trp Gly Glu Arg Asp Trp Gly Cys
1 5 10

<210> 135
<211> 10
<212> PRT
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<220>
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<400> 135
Ser Thr Ala Glu Arg Leu Trp Phe Cys Gly
1 5 10

<210> 136
<211> 10
<212> PRT
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<400> 136
Tyr Glu Thr Ala Glu Arg Ser Tyr Phe Cys
1 5 10

<210> 137
<211> 10
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<400> 137
Ala Asp Asn Ala Glu Arg Gly Trp Phe Cys
1 5 10

<210> 138
<211> 10
<212> PRT
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<400> 138
Gln Ser Asn Ser Glu Arg Glu Trp Phe Cys
1 5 10

<210> 139
<211> 10
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<400> 139
Ser Thr Ser Glu Arg Ala Trp Phe Cys Gly
1 5 10

<210> 140
<211> 10
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<400> 140
Ala Ser Trp Ser Glu Arg Gly Trp Phe Cys
1 5 10

<210> 141
<211> 10
<212> PRT
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<400> 141
Glu Leu Ser Ser Glu Arg Glu Trp Phe Cys
1 5 10

<210> 142
<211> 10
<212> PRT
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<400> 142
Asp Met Gln Gly Glu Arg Gly Trp Phe Cys
1 5 10

<210> 143
<211> 10
<212> PRT
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<400> 143
Ser Ser Ser Glu Arg Ala Trp Phe Cys Gly
1 5 10

<210> 144
<211> 10
<212> PRT
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<400> 144
Gly Asn Met Arg Glu Arg Leu Tyr Phe Cys
1 5 10

<210> 145
<211> 10
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<400> 145
Gln Pro Asn Arg Glu Arg Tyr Phe Met Cys
1 5 10

<210> 146
<211> 10
<212> PRT
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<220>
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<400> 146
Ser Val Thr Arg Glu Arg Leu Phe Leu Cys
1 5 10

<210> 147
<211> 15
<212> PRT
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<400> 147
Ile Pro Leu Ser Glu Arg Ala Leu Met Cys Ser Ser Trp Asn Cys
1 5 10 15

<210> 148
<211> 15
<212> PRT
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<220>
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<400> 148
Trp Ala Arg Ser Glu Arg Asp Val Met Cys Leu Ser Tyr Val Cys
1 5 10 15

<210> 149
<211> 11
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<400> 149
Gln Ser Asn Ser Glu Arg Glu Trp Phe Cys Gly
1 5 10

<210> 150
<211> 15
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<213> Artificial Sequence

<220>
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<400> 150
Gln Ser Asn Ser Glu Arg Glu Trp Phe Cys Gly Gly Gly Ser
1 5 10 15

<210> 151
<211> 19
<212> PRT
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<220>
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Asn Leu Glu Glu Ala Leu Ala Gln Glu Arg Leu Trp Phe Cys Arg Ser
1 5 10 15
Gly Asn Cys

<210> 152
<211> 19
<212> PRT
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<220>
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<400> 152
Asn Leu Glu Ser Tyr Glu Met Glu Glu Arg Lys Trp Phe Cys Lys Met
1 5 10 15
Phe Ser Cys

<210> 153
<211> 9
<212> PRT
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<220>
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<400> 153
Asp Met Val Tyr Ala Tyr Pro Pro Trp
1 5

<210> 154
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 154
Glu Met Val Tyr Thr Val Pro Tyr Trp
1 5

<210> 155
<211> 10
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<220>
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peptide

<400> 155
Asp Met Val Tyr Ala Tyr Pro Pro Trp Ser
1 5 10

<210> 156
<211> 10
<212> PRT
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peptide

<400> 156
Asp Glu Met Val Tyr Thr Val Pro Tyr Trp
1 5 10

<210> 157
<211> 12
<212> PRT
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peptide

<400> 157
Cys Glu Ser Arg Leu Val Glu Cys Ser Arg Met Cys
1 5 10

<210> 158
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<400> 158
Cys Glu Thr Tyr Met Thr Tyr Val Tyr Trp Leu Cys
1 5 10

<210> 159
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<400> 159
Cys Gly Glu Arg Leu Ala Glu Cys Ala Arg Leu Cys
1 5 10

<210> 160
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Cys Glu Ser Arg Leu Arg Glu Cys Ser Met Leu Cys
1 5 10

<210> 161
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<400> 161
Cys Glu Ala Arg Leu Ser Glu Cys Ser Arg Ile Cys
1 5 10

<210> 162
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<400> 162

Cys Pro Ala Arg Leu Leu Glu Cys Ser Arg Met Cys
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<400> 163

Cys Glu Ser Val Gly Val Gly Asp Trp Trp Ser Cys
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<210> 164

<211> 12

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<400> 164

Cys Glu Asp Arg Leu Val Glu Gly Pro Trp Val Cys
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<210> 165

<211> 12

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<400> 165

Cys Asn Asp Gln Phe Arg Thr Cys Val Asp Val Cys
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<210> 166

<211> 12

<212> PRT

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peptide

<400> 166
Cys Arg Gly Glu Trp Trp Glu Leu Tyr His Pro Cys
1 5 10

<210> 167
<211> 12
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peptide

<400> 167
Cys Glu Asp Thr Arg Thr Gly Trp Ala Trp Ser Cys
1 5 10

<210> 168
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peptide

<400> 168
Cys Thr Trp Leu Ser Ser Gly Glu Leu Val Trp Cys
1 5 10

<210> 169
<211> 12
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peptide

<400> 169
Cys Trp Pro Pro Val Cys Glu Val Ser Gly Ile Cys
1 5 10

<210> 170
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<400> 170
Cys Ser Leu Ser Pro Ile Gln Leu Gln His Leu Cys
1 5 10

<210> 171
<211> 12
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<400> 171
Cys Leu Ala Arg Leu Glu Glu Cys Ser Arg Phe Cys
1 5 10

<210> 172
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<400> 172
Cys His Asn Ser Ser Pro Met Val Gly Val Thr Cys
1 5 10

<210> 173
<211> 12
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<400> 173
Cys His Val Ser Pro Val Gln Ile Lys Ala Leu Cys
1 5 10

<210> 174
<211> 12
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peptide

<400> 174
Cys Ala Ala Pro Ala Thr Ser Trp Phe Gln Tyr Cys
1 5 10

<210> 175
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peptide

<400> 175
Cys Ala Ser Lys Leu His Glu Cys Ser Leu Arg Cys
1 5 10

<210> 176
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peptide

<400> 176
Cys Glu Pro Met Asp Ser Asn Gly Ile Val Gln Cys
1 5 10

<210> 177
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peptide

<400> 177
Cys Gln Tyr Ala Ser Ala Ala Asp Glu Gln Arg Cys
1 5 10

<210> 178
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peptide

<400> 178
Cys Glu Tyr Trp Asp Glu Pro Ser Leu Ser Trp Cys
1 5 10

<210> 179
<211> 12
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peptide

<400> 179
Cys Glu Arg Glu Cys Phe Gln Met Leu Glu Arg Cys
1 5 10

<210> 180
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<212> PRT
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peptide

<400> 180
Cys Gly Met Ser Thr Asp Glu Leu Asp Glu Ile Cys
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<210> 181
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peptide

<400> 181
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<400> 182

Cys Glu Ala Arg Leu Val Glu Cys Ser Arg Leu Cys
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<210> 183

<211> 12

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<400> 183

Cys Glu Ser Arg Leu Ser Glu Cys Ser Arg Met Cys
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<210> 184

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 184

Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
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<210> 185

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<400> 185

Cys Glu Leu Lys Leu Gln Glu Ala Ala Arg Arg Cys
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<210> 186

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<400> 186
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1 5 10

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<400> 187
Gly Gly Cys Glu Ser Arg Leu Val Glu Cys Ser Arg Met Cys
1 5 10

<210> 188
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<400> 188
Gly Gly Cys Glu Thr Tyr Met Thr Tyr Val Tyr Trp Leu Cys
1 5 10

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<400> 189
Glu Trp Leu Cys Glu Ser Val Gly Val Gly Asp Trp Trp Ser Cys
1 5 10 15

<210> 190
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peptide

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Tyr His Pro Cys Glu Asp Arg Leu Val Glu Gly Pro Trp Val Cys Cys
1 5 10 15
Arg Ser

<210> 191
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peptide

<400> 191
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1 5 10 15
Asn Val

<210> 192
<211> 18
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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 192
Ile Ala Glu Cys Arg Gly Glu Trp Trp Glu Leu Tyr His Pro Cys Leu
1 5 10 15

Ala Ala

<210> 193
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 193
Thr Trp Tyr Cys Glu Asp Thr Arg Thr Gly Trp Ala Trp Ser Cys Leu
1 5 10 15

Glu Leu

<210> 194
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 194
Gln Leu Asp Cys Thr Trp Leu Ser Ser Gly Glu Leu Val Trp Cys Ser
1 5 10 15

Asp Trp

<210> 195
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 195
Gln Phe Asp Cys Thr Trp Leu Ser Ser Gly Glu Leu Val Trp Cys Ser
1 5 10 15

Asp Trp

<210> 196
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 196
Cys Trp Pro Pro Val Cys Glu Val Ser Gly Ile Cys Ser
1 5 10

<210> 197
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 197

Cys Gly Cys Ser Leu Ser Pro Ile Gln Leu Gln His Leu Cys
1 5 10

<210> 198

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 198

Cys Gly Cys His Val Ser Pro Val Gln Ile Lys Ala Leu Cys
1 5 10

<210> 199

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 199

Gly Cys His Val Ser Pro Val Gln Ile Lys Ala Leu Cys
1 5 10

<210> 200

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 200

Gly Thr Ser Cys Ala Ala Pro Ala Thr Ser Trp Phe Gln Tyr Cys Val
1 5 10 15

Leu Pro

<210> 201

<211> 18

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 201
Arg Met Asp Cys Ala Ser Lys Leu His Glu Cys Ser Leu Arg Cys Ala
1 5 10 15
Tyr Ala

<210> 202
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 202
Gly Val Val Cys Glu Pro Met Asp Ser Asn Gly Ile Val Gln Cys Ser
1 5 10 15

Met Arg

<210> 203
<211> 18
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 203
Ile Asp Val Cys Gln Tyr Ala Ser Ala Ala Asp Glu Gln Arg Cys Leu
1 5 10 15

Arg Ile

<210> 204
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 204
Asn Val Leu Cys Glu Tyr Trp Asp Glu Pro Ser Leu Ser Trp Cys Leu
1 5 10 15
Ser Ser

<210> 205
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 205
Cys Gln Cys Glu Arg Glu Cys Phe Gln Met Leu Glu Arg Cys
1 5 10

<210> 206
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 206
Phe Cys Ser Cys Gly Met Ser Thr Asp Glu Leu Asp Glu Ile Cys Ala
1 5 10 15

Ile Trp

<210> 207
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 207
Glu Glu Val Cys Tyr Val Ser Pro Ser Thr Gly Leu Tyr Ser Cys Tyr
1 5 10 15

Asp Gln

<210> 208
<211> 17

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 208
Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 209
<211> 20
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 209
Gly Gly Gly Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Cys Ala
1 5 10 15

Arg Arg Cys Asn
20

<210> 210
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 210
Gly Arg Thr Gly Gly Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln
1 5 10 15

Glu Cys Ala Arg Arg Cys Asn
20

<210> 211
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 211
Leu Gly Ile Glu Gly Arg Thr Gly Gly Leu Leu Asp Ile Cys Glu
1 5 10 15

Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys Asn
20 25

<210> 212
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 212
Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Ala Ala Arg Arg Cys
1 5 10 15

Asn

<210> 213
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 213
Lys Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Ala Ala Arg Arg
1 5 10 15

Cys Asn

<210> 214
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 214
Glu Glu Lys Leu Arg Glu Cys Ala Arg
1 5

<210> 215
<211> 9

<212> PRT
<213> Artificial Sequence

<220>
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<400> 215
Glu Ala Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 216
<211> 9
<212> PRT
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<220>
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<400> 216
Cys Met Lys Leu Met Glu Cys Ala Arg
1 5

<210> 217
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 217
Glu Leu Arg Leu Arg Glu Cys Ala His
1 5

<210> 218
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 218
Glu Ala Lys Leu His Glu Cys Ala Arg
1 5

<210> 219
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 219
Glu Leu Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 220
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 220
Glu Ala Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 221
<211> 9
<212> PRT
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<220>
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peptide

<400> 221
Glu Ala Lys Leu Arg Glu Cys Ala Arg
1 5

<210> 222
<211> 9
<212> PRT
<213> Artificial Sequence

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peptide

<400> 222
Glu Leu Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 223
<211> 9
<212> PRT
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<220>
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peptide

<400> 223
Glu Ser Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 224
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 224
Glu Ala Lys Leu Val Glu Cys Ala Arg
1 5

<210> 225
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 225
Glu Ser Arg Leu Arg Glu Cys Ala Arg
1 5

<210> 226
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 226
Glu Ala Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 227
<211> 9
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<220>
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<400> 227
Gln Trp Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 228
<211> 9
<212> PRT
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<400> 228
Gln Leu Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 229
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 229
Glu Leu Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 230
<211> 9
<212> PRT
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<400> 230
Glu Ala Lys Leu Leu Glu Cys Ala Arg
1 5

<210> 231
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<212> PRT
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<220>
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<400> 231
Glu Ala Arg Ala Gly Val Cys Ala Gly
1 5

<210> 232
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 232
Glu Ala Lys Ala Gly Val Cys Ala Gly
1 5

<210> 233
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 233
Val Ala Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 234
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 234
Glu Leu Lys Leu Asp Glu Cys Ala Arg
1 5

<210> 235
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 235
Glu Trp Arg Leu Gln Glu Cys Ala Arg
1 5

<210> 236
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 236
Glu Ala Lys Leu Ser Glu Cys Ala Arg
1 5

<210> 237
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 237
Glu Ala Arg Leu Ser Glu Cys Ala Arg
1 5

<210> 238
<211> 9
<212> PRT
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peptide

<400> 238
Glu Leu Lys Leu Leu Glu Cys Ala Arg
1 5

<210> 239
<211> 9
<212> PRT
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<400> 239
Glu Leu Arg Leu Gln Glu Cys Gly Arg
1 5

<210> 240
<211> 9
<212> PRT
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<400> 240
Glu Gln Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 241
<211> 9
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<400> 241
Glu Leu Arg Leu Gln Glu Cys Ala Arg
1 5

<210> 242
<211> 9
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<400> 242
Glu Leu Lys Leu Glu Glu Cys Ala Arg
1 5

<210> 243
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peptide

<400> 243
Glu Ser Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 244
<211> 9
<212> PRT
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<220>
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peptide

<400> 244
Glu Ala Thr Val Gln Glu Cys Ala Arg
1 5

<210> 245
<211> 9
<212> PRT
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<220>
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peptide

<400> 245
Glu Leu Lys Leu Gln Glu Cys Ala Arg
1 5

<210> 246
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<212> PRT
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peptide

<400> 246
Tyr Ser Arg Leu Glu Glu Cys Gly Arg
1 5

<210> 247
<211> 9
<212> PRT
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<220>
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<400> 247
Glu Leu Arg Leu Arg Glu Cys Ala Leu
1 5

<210> 248
<211> 9
<212> PRT
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<220>
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<400> 248
Glu Ala Arg Leu Leu Glu Cys Ala Arg
1 5

<210> 249
<211> 9
<212> PRT
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<220>
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<400> 249
Glu Ser Arg Leu Leu Glu Cys Ala Arg
1 5

<210> 250
<211> 9
<212> PRT
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<220>
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<400> 250
Val Leu Lys Leu Glu Glu Cys Ala Arg
1 5

<210> 251
<211> 9
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<213> Artificial Sequence

<220>
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<400> 251
Glu Ser Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 252
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 252
Glu Ser Lys Leu Arg Glu Cys Ala Arg
1 5

<210> 253
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 253
Glu Tyr Lys Leu Gly Glu Cys Ala Arg
1 5

<210> 254
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 254
Glu Ser Arg Leu Gln Glu Cys Ala Arg
1 5

<210> 255
<211> 9
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 255

Gln Ala Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 256

<211> 9

<212> PRT

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<400> 256

Glu Leu Lys Lys Gln Glu Cys Ala Arg
1 5

<210> 257

<211> 9

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 257

Glu Ser Arg Leu Ser Glu Cys Ala Arg
1 5

<210> 258

<211> 9

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 258

Glu Ala Arg Leu Glu Glu Cys Gly Arg
1 5

<210> 259

<211> 9

<212> PRT

<213> Artificial Sequence

<220>
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peptide

<400> 259
Glu Ser Arg Leu Ala Glu Cys Gly Arg
1 5

<210> 260
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 260
Glu Trp Arg Leu Glu Glu Cys Ala Arg
1 5

<210> 261
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 261
Glu Ala Arg Leu Ser Glu Cys Gly Arg
1 5

<210> 262
<211> 9
<212> PRT
<213> Artificial Sequence

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peptide

<400> 262
Ala Ala Arg Leu Ala Glu Cys Ala Arg
1 5

<210> 263
<211> 9
<212> PRT
<213> Artificial Sequence

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peptide

<400> 263
Glu Trp Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 264
<211> 9
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peptide

<400> 264
Glu Ser Lys Leu Glu Glu Cys Ala Arg
1 5

<210> 265
<211> 9
<212> PRT
<213> Artificial Sequence

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peptide

<400> 265
Asp Val Lys Leu Ala Glu Cys Ala Arg
1 5

<210> 266
<211> 9
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<213> Artificial Sequence

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peptide

<400> 266
Glu Leu Gln Leu Glu Glu Cys Ala Arg
1 5

<210> 267
<211> 9
<212> PRT
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 267

Glu Tyr Lys Leu Ala Ser Cys Ala Arg
1 5

<210> 268

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 268

Arg Leu Ser Ile Cys Glu Glu Lys Leu Arg Glu Cys Ala Arg Gly Cys
1 5 10 15

<210> 269

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 269

Pro Leu Thr Thr Cys Glu Ala Arg Leu Ala Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 270

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 270

Leu Ala Leu Cys Met Lys Leu Met Glu Cys Ala Arg Arg Tyr
1 5 10

<210> 271

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 271

Glu Leu Val Met Cys Glu Leu Arg Leu Arg Glu Cys Ala His Arg Ala
1 5 10 15

<210> 272

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 272

Pro Leu Ala Arg Cys Glu Ala Lys Leu His Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 273

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 273

Leu Leu Ser Val Cys Glu Leu Lys Leu Ala Glu Cys Ala Arg Ser Lys
1 5 10 15

<210> 274

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 274

Arg Leu Glu Trp Cys Glu Ala Arg Leu Glu Glu Cys Ala Arg Arg Cys
1 5 10 15

<210> 275

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 275

Arg Leu Arg Val Val Glu Ala Lys Leu Arg Glu Cys Ala Arg Gly Arg
1 5 10 15

<210> 276

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 276

Cys Val Ala His Leu Glu Leu Arg Leu Ala Glu Cys Ala Arg Gln Ile
1 5 10 15

<210> 277

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 277

His Leu Ala Arg Cys Glu Ser Arg Leu Ala Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 278

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 278

Arg Leu Ala Leu Leu Glu Ala Lys Leu Val Glu Cys Ala Arg Arg Leu
1 5 10 15

<210> 279

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 279

Asp Leu Phe Ser Leu Glu Ser Arg Leu Arg Glu Cys Ala Arg Arg Val
1 5 10 15

<210> 280

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 280

Ala Val Pro Val Leu Glu Ala Lys Leu Ala Glu Cys Ala Arg Arg Phe
1 5 10 15

<210> 281

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 281

Tyr Leu Gln Gln Leu Gln Trp Arg Leu Glu Glu Cys Ala Arg Gly Met
1 5 10 15

<210> 282

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 282

Tyr Leu Glu Leu Cys Gln Leu Arg Leu Glu Glu Cys Ala Arg Gln Phe
1 5 10 15

Asn

<210> 283

<211> 16

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 283
Glu Leu His Ile Cys Glu Leu Arg Leu Glu Glu Cys Ala Arg Gly Arg
1 5 10 15

<210> 284
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 284
Arg Val Ala Arg Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Lys Ser
1 5 10 15

<210> 285
<211> 16
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 285
Tyr Leu Glu Val Leu Glu Ser Arg Leu Ala Glu Cys Ala Arg Trp Lys
1 5 10 15

<210> 286
<211> 11
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 286
Glu Ala Lys Leu Leu Glu Cys Ala Arg Ala Arg
1 5 10

<210> 287
<211> 18
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 287

Glu Leu Ser Leu Cys Glu Ala Arg Ala Gly Val Cys Ala Gly Ser Val
1 5 10 15

Thr Lys

<210> 288

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 288

Glu Leu Ser Leu Cys Glu Ala Lys Ala Gly Val Cys Ala Gly Ser Val
1 5 10 15

Thr Lys

<210> 289

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 289

Ala Leu Trp Gln Cys Val Ala Arg Leu Glu Glu Cys Ala Arg Ser Arg
1 5 10 15

<210> 290

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 290

Cys Leu Lys Ser Cys Glu Leu Lys Leu Asp Glu Cys Ala Arg Arg Met
1 5 10 15

<210> 291
<211> 16
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 291
Ala Leu Gln Thr Cys Glu Trp Arg Leu Gln Glu Cys Ala Arg Ser Arg
1 5 10 15

<210> 292
<211> 16
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 292
Tyr Ile Ser Gln Cys Glu Ala Lys Leu Ala Glu Cys Ala Arg Leu Tyr
1 5 10 15

<210> 293
<211> 16
<212> PRT
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<400> 293
Glu Leu Ser Ser Cys Glu Ala Lys Leu Ser Glu Cys Ala Arg Arg Trp
1 5 10 15

<210> 294
<211> 16
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<220>
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<400> 294
Glu Leu Ser Ser Cys Glu Ala Arg Leu Ser Glu Cys Ala Arg Arg Trp
1 5 10 15

<210> 295
<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 295

Gln Leu Leu Gln Cys Glu Leu Lys Leu Leu Glu Cys Ala Arg Gln Gly
1 5 10 15

<210> 296

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 296

Glu Leu Leu Arg Cys Glu Ala Arg Leu Ala Glu Cys Ala Arg Gly Cys
1 5 10 15

<210> 297

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 297

Gln Leu Arg Gln Cys Glu Leu Arg Leu Gln Glu Cys Gly Arg His Gly
1 5 10 15

Asn

<210> 298

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 298

Pro Leu Thr Ser Cys Glu Gln Lys Leu Ala Glu Cys Ala Arg Arg Phe
1 5 10 15

<210> 299

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 299

Leu Leu Gly Met Cys Glu Leu Arg Leu Gln Glu Cys Ala Arg Ala Lys
1 5 10 15

<210> 300

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 300

Glu Leu Ser Arg Cys Glu Leu Lys Leu Glu Glu Cys Ala Arg Gly Met
1 5 10 15

<210> 301

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 301

Asp Cys Arg Pro Cys Glu Ser Arg Leu Glu Glu Cys Ala Arg Arg Leu
1 5 10 15

<210> 302

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 302

Arg Leu Ser Val Cys Glu Ala Arg Leu Glu Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 303

<211> 16

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 303
Pro Leu Lys Met Cys Glu Ala Thr Val Gln Glu Cys Ala Arg Leu Ile
1 5 10 15

<210> 304
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 304
Leu Leu Leu Phe Cys Glu Ala Arg Leu Ser Glu Cys Ala Arg His Val
1 5 10 15

<210> 305
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 305
Ser Leu Ser Met Cys Glu Ala Arg Leu Ala Glu Cys Ala Arg Leu Leu
1 5 10 15

<210> 306
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 306
Pro Leu Phe Ser Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 307

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 307

Ser Leu Glu Arg Cys Tyr Ser Arg Leu Glu Glu Cys Gly Arg Arg Ile
1 5 10 15

<210> 308

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 308

Pro Leu Thr Ser Cys Glu Leu Arg Leu Arg Glu Cys Ala Leu Arg Ser
1 5 10 15

Asn

<210> 309

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 309

Lys Leu Ala Ala Cys Glu Leu Lys Leu Ala Glu Cys Ala Arg Arg Trp
1 5 10 15

<210> 310

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 310

Lys Leu Ala Ala Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Arg Trp
1 5 10 15

<210> 311
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 311
Ala Leu Thr Arg Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Lys Ile
1 5 10 15

<210> 312
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 312
Leu Leu Gln Gln Cys Glu Leu Lys Leu Ala Glu Cys Ala Arg Ser Ile
1 5 10 15

<210> 313
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 313
Gln Leu Trp Gln Cys Glu Ala Arg Leu Leu Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 314
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 314
Arg Leu Arg Leu Cys Glu Ser Arg Leu Leu Glu Cys Ala Arg Ser Leu
1 5 10 15

<210> 315
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 315
Gln Leu Glu Thr Cys Val Leu Lys Leu Glu Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 316
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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<400> 316
Ala Leu Ser Gln Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Ser Val
1 5 10 15

Thr Lys

<210> 317
<211> 11
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 317
Glu Leu Lys Leu Ala Glu Cys Ala Arg Arg Ser
1 5 10

<210> 318
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 318
Ala Leu Ser Arg Cys Glu Ser Lys Leu Ala Glu Cys Ala Arg Arg Gln
1 5 10 15

<210> 319
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 319
Leu Met Ser Thr Cys Glu Ser Lys Leu Arg Glu Cys Ala Arg Ser Leu
1 5 10 15

<210> 320
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 320
Ser Leu Gln Arg Cys Glu Tyr Lys Leu Gly Glu Cys Ala Arg Ser Leu
1 5 10 15

<210> 321
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 321
Arg Leu Glu Leu Leu Glu Ser Arg Leu Gln Glu Cys Ala Arg Gln Leu
1 5 10 15

Asn

<210> 322
<211> 17
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<220>
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<400> 322
Gln Met Glu Trp Cys Gln Ala Arg Leu Ala Glu Cys Ala Arg Cys Cys
1 5 10 15

Asn

<210> 323
<211> 17
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<220>
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<400> 323
Pro Leu Phe Ser Cys Glu Leu Lys Lys Gln Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 324
<211> 16
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<220>
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<400> 324
Leu Leu Asp Lys Cys Glu Ser Arg Leu Ser Glu Cys Ala Arg Arg Leu
1 5 10 15

<210> 325
<211> 16
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 325
Leu Leu Ala Arg Cys Glu Ala Arg Leu Glu Glu Cys Gly Arg Gln Cys
1 5 10 15

<210> 326
<211> 15
<212> PRT
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<220>
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<400> 326
Asp Leu Leu Tyr Cys Glu Ser Arg Leu Ala Glu Cys Gly Arg Met
1 5 10 15

<210> 327
<211> 16
<212> PRT
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<220>
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<400> 327
Ala Leu Gln Met Cys Glu Trp Arg Leu Glu Glu Cys Ala Arg Arg Leu
1 5 10 15

<210> 328
<211> 16
<212> PRT
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<220>
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<400> 328
Leu Leu Thr Met Cys Glu Ala Arg Leu Ser Glu Cys Gly Arg Arg Leu
1 5 10 15

<210> 329
<211> 16
<212> PRT
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<220>
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<400> 329
Ala Leu Trp Arg Cys Glu Ser Arg Leu Ala Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 330
<211> 16
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 330

Leu Leu Ala Thr Cys Ala Ala Arg Leu Ala Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 331

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 331

Leu Gln Thr Cys Glu Trp Lys Leu Ala Glu Cys Ala Arg Ser Asn
1 5 10 15

<210> 332

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 332

Pro Leu Arg Ser Cys Glu Ser Lys Leu Glu Glu Cys Ala Arg Gln Leu
1 5 10 15

<210> 333

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 333

Cys Leu Arg Ala Leu Asp Val Lys Leu Ala Glu Cys Ala Arg His Leu
1 5 10 15

<210> 334

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 334

Arg Leu Lys Thr Leu Glu Leu Gln Leu Glu Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 335

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 335

Lys Leu Arg Asp Val Glu Leu Lys Leu Ala Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 336

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 336

Ser Leu Gln Arg Cys Glu Tyr Lys Leu Ala Ser Cys Ala Arg Ser Leu
1 5 10 15

<210> 337

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 337

Arg Leu Ala Arg Cys Glu Leu Arg Leu Ala Glu Cys Ala Arg Lys Ser
1 5 10 15

<210> 338

<211> 17

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 338
Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 339
<211> 18
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 339
Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Glu Cys Ala Arg Arg Ala
1 5 10 15

Asn Gly

<210> 340
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<220>
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<400> 340
Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn Gly

<210> 341
<211> 16
<212> PRT
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<220>
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<400> 341
Lys Gln Arg Glu Leu Glu Leu Lys Leu Ala Glu Cys Ala Arg Arg Ser
1 5 10 15

<210> 342

<211> 17

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 342

Gln Met Gln Glu Trp Cys Ala Arg Leu Ala Glu Cys Ala Arg Cys Cys
1 5 10 15

Asn

<210> 343

<211> 17

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 343

Leu Leu Asp Ile Cys Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Ala
1 5 10 15

Asn

<210> 344

<211> 10

<212> PRT

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<400> 344

Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp
1 5 10

<210> 345

<211> 10

<212> PRT

<213> Artificial Sequence

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<400> 345
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1 5 10

<210> 346
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<400> 346
Ala Glu Arg Met Ala Glu Glu Arg Arg Trp
1 5 10

<210> 347
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<212> PRT
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<400> 347
Ala Glu Arg Lys Ala Glu Glu Arg Arg Arg
1 5 10

<210> 348
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<400> 348
Ala His Arg Asn Ala Glu Glu Arg Arg Trp
1 5 10

<210> 349
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<400> 349
Ala Glu Arg Lys Ser Glu Asp Trp Arg Trp
1 5 10

<210> 350
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<400> 350
Ala Glu Arg Lys Ala Glu Glu Lys Arg Arg
1 5 10

<210> 351
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<400> 351
Ala Glu Arg Gln Ala Glu Thr Arg Arg Trp
1 5 10

<210> 352
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<400> 352
Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp
1 5 10

<210> 353
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<400> 353
Ala Glu Arg Gln Ala Glu Glu Arg Arg Trp
1 5 10

<210> 354
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<400> 354
Ala Glu Arg Arg Ala Glu Glu Arg Arg Trp
1 5 10

<210> 355
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<212> PRT
<213> Artificial Sequence

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<400> 355
Ala Glu Arg Asp Ala Glu Gln Arg Arg Trp
1 5 10

<210> 356
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<400> 356
Ala Glu Arg Ile Ala Glu Glu Arg Arg Trp
1 5 10

<210> 357
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<400> 357

Ala Glu Arg Ser Ala Glu Glu Arg Arg Trp
1 5 10

<210> 358

<211> 10
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<400> 358

Ala Glu Arg Lys Ala Glu Glu Leu Arg Trp
1 5 10

<210> 359

<211> 10
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<400> 359

Ala Glu Arg Lys Ala Glu Glu Ser Arg Trp
1 5 10

<210> 360

<211> 10
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<400> 360

Glu Glu Arg Lys Ala Glu Glu Arg Arg Trp
1 5 10

<210> 361

<211> 10
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<400> 361
Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp
1 5 10

<210> 362
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<400> 362
Ala Asp Gly Lys Ala Glu Glu Leu Arg Trp
1 5 10

<210> 363
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<400> 363
Ala Asp Gly Met Pro Glu Glu Arg Arg Trp
1 5 10

<210> 364
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<213> Artificial Sequence

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<400> 364
Ala Asp Gly Glu Ala Glu Lys Arg Arg Trp
1 5 10

<210> 365
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<213> Artificial Sequence

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<400> 365
Ala Asp Gly Asn Ala Glu Glu Arg Arg Trp
1 5 10

<210> 366
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<400> 366
Ala Asp Gly Glu Ala Glu Lys Ala Arg Trp
1 5 10

<210> 367
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<400> 367
Ala Glu Gly Glu Ala Glu Lys Ala Arg Trp
1 5 10

<210> 368
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<400> 368
Gly Glu Arg Lys Ala Glu Glu Arg Arg Trp
1 5 10

<210> 369
<211> 10
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<400> 369
Ala Glu Arg Glu Ala Glu Glu Arg Arg Trp
1 5 10

<210> 370
<211> 10
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<400> 370
Ala Asp Gly Glu Ala Glu Ala Arg Arg Trp
1 5 10

<210> 371
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<213> Artificial Sequence

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<400> 371
Ala Asp Gly Arg Ala Glu Glu Ala Arg Trp
1 5 10

<210> 372
<211> 10
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<400> 372
Ala Glu Gly Arg Ala Glu Glu Ala Arg Trp
1 5 10

<210> 373
<211> 10
<212> PRT
<213> Artificial Sequence

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<400> 373
Ala Glu Arg Glu Ala Glu Lys Ala Arg Trp
1 5 10

<210> 374
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 374
Ala Glu Arg Lys Ala Glu Glu Gln Arg Trp
1 5 10

<210> 375
<211> 10
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<213> Artificial Sequence

<220>
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<400> 375
Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp
1 5 10

<210> 376
<211> 10
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<220>
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<400> 376
Ala Glu Arg Glu Ala Glu Lys Leu Arg Trp
1 5 10

<210> 377
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 377

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Asn Thr His
1 5 10 15

Gly Arg Glu

<210> 378

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 378

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Asn Thr His
1 5 10 15

Gly Arg Glu Lys

20

<210> 379

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 379

Gly Gly Gly Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe
1 5 10 15

Asn Thr His Gly Arg Glu

20

<210> 380

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 380

Cys Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Asn Thr
1 5 10 15

His Gly Arg Glu

20

<210> 381
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 381
Cys Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Asn Thr
1 5 10 15

His Gly Arg Glu Lys
20

<210> 382
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 382
Met Leu Ala Glu Arg Tyr Ala Glu Glu Arg Glu Gly Phe Asn Met Gln
1 5 10 15

Trp Arg Glu

<210> 383
<211> 17
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 383
Met Leu Ala Glu Arg Met Ala Glu Glu Arg Arg Trp Phe Arg Arg Met
1 5 10 15

Gly

<210> 384
<211> 19
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 384

Ile Val Ala Glu Arg Lys Ala Glu Glu Arg Arg Arg Leu Asn Thr Glu
1 5 10 15

Gly His Glu

<210> 385

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 385

Ile Leu Ala His Arg Asn Ala Glu Glu Arg Arg Trp Phe Gln Lys His
1 5 10 15

Gly Arg

<210> 386

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 386

Met Leu Ala Glu Arg Lys Ser Glu Asp Trp Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 387

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 387

Met Leu Ala Glu Arg Lys Ala Glu Glu Lys Arg Arg Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 388
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 388
Ile Leu Ala Glu Arg Gln Ala Glu Thr Arg Arg Trp Met Arg Asn Ala
1 5 10 15

Gly Ser Val Thr Lys
20

<210> 389
<211> 18
<212> PRT
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<220>
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<400> 389
Met Leu Ala Glu Arg Asn Ala Glu Arg Arg Trp Leu Lys Arg Gln
1 5 10 15

Cys Gly

<210> 390
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 390
Met Leu Ala Glu Arg Gln Ala Glu Glu Arg Arg Trp Leu Lys Met His
1 5 10 15

Gly Gly Glu

<210> 391
<211> 19

<212> PRT
<213> Artificial Sequence

<220>
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<400> 391
Met Leu Ala Glu Arg Arg Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15
Gly Gly Asp

<210> 392
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 392
Met Leu Ala Glu Arg Gln Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Asp

<210> 393
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 393
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Lys Thr His
1 5 10 15

Gly Arg Glu

<210> 394
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 394

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Asn Asn Gln
1 5 10 15

Gly Arg Glu

<210> 395

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 395

Met Pro Ala Glu Arg Asp Ala Glu Gln Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Glu

<210> 396

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 396

Ile Leu Ala Glu Arg Ile Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg

<210> 397

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 397

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Gln Thr His
1 5 10 15

Gly Arg Glu

<210> 398
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 398
Ile Leu Ala Glu Arg Ser Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15
Gly Arg Glu

<210> 399
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 399
Leu Leu Ala Glu Arg Lys Ala Glu Glu Leu Arg Trp Leu Lys Thr His
1 5 10 15
Gly Arg Glu

<210> 400
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
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<400> 400
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1 5 10 15

Gly Arg Glu

<210> 401
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 401

Met Leu Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp
1 5 10

<210> 402

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 402

Met Phe Ala Glu Arg Lys Ala Glu Glu Ser Arg Trp Leu Gln Ser Gln
1 5 10 15

Gly Arg Glu

<210> 403

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 403

Met Leu Glu Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg

<210> 404

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 404

Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Met Gln
1 5 10 15

Gly Arg Glu

<210> 405
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 405
Met Leu Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp Phe Tyr Thr His
1 5 10 15
Gly Arg Glu

<210> 406
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 406
Met Leu Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15
Gly Leu Asp

<210> 407
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 407
Met Ile Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 408
<211> 19
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 408

Met Leu Ala Asp Gly Lys Ala Glu Glu Leu Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Ser Asp

<210> 409

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 409

Met Leu Ala Glu Arg Asn Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 410

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 410

Met Leu Ala Asp Gly Lys Ala Glu Glu Leu Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 411

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 411

Ile Leu Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15

Gly Arg Asp

<210> 412
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 412
Met Leu Ala Asp Gly Met Pro Glu Glu Arg Arg Trp Leu Gln Thr His
1 5 10 15

Gly Arg Asp

<210> 413
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 413
Met Leu Ala Asp Gly Glu Ala Glu Lys Arg Arg Trp Leu Asn Thr His
1 5 10 15

Gly Arg Asp

<210> 414
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 414
Met Leu Ala Asp Gly Asn Ala Glu Glu Arg Arg Trp Leu Met Thr His
1 5 10 15

Gly Arg Asp

<210> 415
<211> 19

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 415
Met Leu Ala Asp Gly Glu Ala Glu Lys Ala Arg Trp Leu Lys Thr Gln
1 5 10 15
Gly Arg Glu

<210> 416
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 416
Met Leu Ala Glu Gly Glu Ala Glu Lys Ala Arg Trp Leu Lys Thr Gln
1 5 10 15
Gly Arg Glu

<210> 417
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 417
Met Leu Ala Asp Gly Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 418
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 418
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Ser Ala His
1 5 10 15

Val Arg Glu

<210> 419
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 419
Leu Leu Gly Glu Arg Lys Ala Glu Glu Arg Arg Trp Tyr Lys Thr His
1 5 10 15

Ala Arg Glu

<210> 420
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 420
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Met Thr His
1 5 10 15

Gly His Asp

<210> 421
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 421
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Ser Gln
1 5 10 15

Cys Leu Glu

<210> 422
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 422
Leu Leu Ala Glu Arg Glu Ala Glu Glu Arg Arg Trp Phe Lys Thr His
1 5 10 15
Gly Arg Glu

<210> 423
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 423
Met Leu Ala Asp Gly Glu Ala Glu Ala Arg Arg Trp Phe Asn Met His
1 5 10 15
Gly Arg Glu

<210> 424
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 424
Met Leu Ala Asp Gly Arg Ala Glu Glu Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Ser Glu

<210> 425
<211> 19
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 425

Met Leu Ala Glu Gly Arg Ala Glu Glu Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Ser Glu

<210> 426

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 426

Met Leu Ala Glu Arg Glu Ala Glu Lys Ala Arg Trp Leu Lys Thr Gln
1 5 10 15

Gly Arg Glu

<210> 427

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 427

Met Met Ala Glu Arg Lys Ala Glu Glu Gln Arg Trp Phe Asp Ile His
1 5 10 15

Gly Arg Asp

<210> 428

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 428

Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu

<210> 429
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 429
Met Leu Ala Glu Arg Gln Ala Glu Glu Arg Arg Trp Leu Lys Ser Gln
1 5 10 15

Arg Gly Glu

<210> 430
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 430
Leu Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Phe Ala Thr His
1 5 10 15

Gly Arg Asp

<210> 431
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 431
Met Leu Ala Glu Arg Glu Ala Glu Lys Leu Arg Trp Leu Lys Ser Gln
1 5 10 15

Glu Arg Ala

<210> 432
<211> 19

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 432
Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp Leu Lys Thr His
1 5 10 15
Gly Gly Glu

<210> 433
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 433
Cys Thr Trp Thr Asp Leu Glu Ser Val Tyr
1 5 10

<210> 434
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 434
His Thr Thr Asn Glu Gln Phe Phe Met Cys
1 5 10

<210> 435
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 435
Asp Thr Trp Leu Glu Leu Glu Ser Arg Tyr
1 5 10

<210> 436
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 436
His Asn Ser Ser Pro Met Val Gly Val Thr
1 5 10

<210> 437
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 437
Asp Trp Gln Lys Thr Ile Pro Ala Tyr Trp
1 5 10

<210> 438
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 438
Arg Trp Gly Arg Glu Gly Leu Val Ala Ala Leu Leu
1 5 10

<210> 439
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 439
Trp Ser Gly Thr Arg Val Trp Arg Cys Val Val Thr
1 5 10

<210> 440
<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 440

Met Ser Leu Leu Ser Tyr Leu Arg Ser
1 5

<210> 441

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 441

Leu Asp Leu Leu Ala Ile
1 5

<210> 442

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 442

Arg Ile Tyr Gly Val Lys
1 5

<210> 443

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 443

Met Ile Trp His Met Phe Met Ser Leu Leu Phe
1 5 10

<210> 444

<211> 11

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 444
Phe Phe Trp Ala Ser Trp Met His Leu Leu Trp
1 5 10

<210> 445
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 445
Phe Asp Asp Cys Trp Arg Glu Arg Glu Gln Phe Leu Phe Gln Ala Leu
1 5 10 15

<210> 446
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 446
Cys Gly Arg Ala Ser Glu Cys Phe Arg Leu Leu Glu Met
1 5 10

<210> 447
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 447
Arg Glu Cys Phe Gln Met Leu Glu Arg
1 5

<210> 448
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 448

Cys Ser Ile Arg Trp Asp Phe Val Pro Gly Tyr Gly Leu Cys
1 5 10

<210> 449

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 449

Trp Met Gln Cys Trp Asp Ser Leu Ser Leu Cys Tyr Asp Met
1 5 10

<210> 450

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 450

Ala Leu Leu Met Cys Glu Ser Lys Leu Ala Glu Cys Ala Arg Ala Arg
1 5 10 15

<210> 451

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 451

Leu Ala His Cys Lys Lys Arg Lys Glu Glu Cys Ala Ala Gly
1 5 10

<210> 452

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 452

Ser Ile Asp Gly Val Tyr Leu Arg Thr Ser Arg Thr
1 5 10

<210> 453

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 453

Ser Ile Asp Gly Val Tyr Leu Arg Thr Arg Ser Arg Thr Arg Tyr
1 5 10 15

<210> 454

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 454

Val Arg Trp Leu Arg Gly Ser Thr Leu Arg Gly Leu Arg Asp Arg
1 5 10 15

<210> 455

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 455

Asp Arg Gly Gly Gly Thr Val Gly Val Tyr Trp Trp Glu Ser Tyr
1 5 10 15

<210> 456

<211> 11

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 456
Val Trp Gly Thr Val Gly Thr Trp Leu Glu Tyr
1 5 10

<210> 457
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 457
Leu Met Trp Val Ser Ala Tyr
1 5

<210> 458
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 458
Arg Ala Ser Asp Glu Tyr Gly Ala Leu Val Arg Phe Cys Thr Asn Leu
1 5 10 15

<210> 459
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 459
Asn Tyr Trp Cys Asp Ser Asn Trp Val Cys Glu Ile Ala
1 5 10

<210> 460
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 460

Leu Ala His Cys Leu Leu Arg Leu Glu Glu Cys Ala Ala Gly
1 5 10

<210> 461

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 461

Leu Ala Leu Cys Leu Ala Arg Leu Arg Glu Cys Ala Gly Gly
1 5 10

<210> 462

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 462

Cys Glu Ser Arg Leu Val Glu Cys Ser Arg Met
1 5 10

<210> 463

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 463

Leu Leu Asp Ile Ala Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg Cys
1 5 10 15

Asn

<210> 464

<211> 18

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 464
Lys Leu Leu Asp Ile Ala Glu Leu Lys Leu Gln Glu Cys Ala Arg Arg
1 5 10 15
Cys Asn

<210> 465
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 465
Cys Ser Thr Gly Gly Gly Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg
1 5 10 15
Arg Trp Leu Leu Thr His Gly Gly Glu
20 25

<210> 466
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 466
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15
Gly Gly Glu Gly Gly
20

<210> 467
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 467
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu Gly Gly Lys
20

<210> 468
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 468
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu Gly Gly Gly Gly
20

<210> 469
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 469
Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg Trp Leu Leu Thr His
1 5 10 15

Gly Gly Glu Gly Gly Gly Gly Lys
20 25

<210> 470
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 470
Glu Ser Gly Trp Val Trp
1 5

<210> 471
<211> 6

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 471
Asn Ser Gly Trp Val Trp
1 5

<210> 472
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 472
Ser Gly Trp Val Trp
1 5

<210> 473
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 473
Pro Leu Gly Lys Cys Glu Ala Thr Cys Arg Glu Met Ala Arg Tyr Phe
1 5 10 15

Asn

<210> 474
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 474
Ser Leu Gln Arg Cys Glu Tyr Lys Leu Ala Ser Val Arg Gly Leu Cys
1 5 10 15

Asn

<210> 475
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 475
Asp Leu Trp Tyr Leu Glu Ser Lys Leu Glu Ala Ala Arg Arg Cys
1 5 10 15

Asn Gly

<210> 476
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 476
Pro Tyr Met Gly Thr Arg Ser Arg Ala Lys Leu Leu Arg Gln Gln
1 5 10 15

<210> 477
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 477
Arg Asn Ala Gly Glu Arg Arg Trp Phe Lys Thr Gln Gly Trp Tyr
1 5 10 15

<210> 478
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 478
Met Leu Ala Glu Arg Asn Ala Asp Asp Arg Arg Trp Phe Asn Thr His
1 5 10 15

Gly Arg Asp

<210> 479
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 479
Met Met Ala Asp Gly Arg Leu Arg Asn Ser Val Gly Leu Ile Leu Trp
1 5 10 15

Cys Asp

<210> 480
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 480
Met Leu Ala Asp Gly Arg Leu Arg Asn Val Val Gly
1 5 10

<210> 481
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 481
Leu Leu Ala Asp Val Arg Arg Asn Gly Val Gly Leu Leu Arg Met
1 5 10 15

Gly Arg Asp

<210> 482
<211> 12

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 482
Met Leu Ala Asp Gly Arg Leu Arg Asn Phe Gly Gly
1 5 10

<210> 483
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 483
Thr Tyr Met Thr Tyr Val Tyr Trp Leu Cys
1 5 10

<210> 484
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 484
Arg Phe Gly Glu Arg Trp Gly Leu
1 5

<210> 485
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 485
His Trp Leu Trp Trp Gly Trp Asn Phe
1 5

<210> 486
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 486

Arg Glu Cys Phe Gln Met Leu Glu Arg Cys
1 5 10

<210> 487

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 487

Ile Leu Ala His Arg Asn Ala Lys Glu Arg Arg Trp Phe Gln Lys His
1 5 10 15

Gly Arg

<210> 488

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 488

Cys Ser Thr Gly Gly Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg
1 5 10 15Arg Trp Leu Leu Thr His Gly Gly Glu Lys
20 25

<210> 489

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 489

Lys Gly Gly Gly Met Leu Ala Glu Arg Lys Ala Glu Glu Arg Arg Trp
1 5 10 15

Phe Asn Thr His Gly Arg Glu
20

<210> 490
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 490
Lys Ser Thr Gly Gly Leu Thr Ala Glu Arg Asp Ala Glu Lys Arg Arg
1 5 10 15

Trp Leu Leu Thr His Gly Gly Glu
20

<210> 491
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 491
Glu Gln Ser Asn Ser Gly Trp Val Trp Val Gly Gly Gly Cys Lys
1 5 10 15
Lys Lys Cys